Amendments to the Claims:

15. (Cancelled)

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims: 1. (Cancelled) 2. (Cancelled) 3. (Cancelled) 4. (Cancelled) 5. (Cancelled) 6. (Cancelled) 7. (Cancelled) 8. (Cancelled) 9. (Cancelled) 10. (Cancelled) 11. (Cancelled) 12. (Cancelled) 13. (Cancelled) 14. (Cancelled)

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16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Cancelled)
25. (Cancelled)
26. (Cancelled)

27. (Cancelled)

28. (Currently amended) A <u>network testing</u> system comprising:

a first computing device coupled to a first network, the network testing system

a second computing device having a hardware network device included therein, the

network device coupled to a second network, the second computing device coupled to the first
network, the network testing system second computing device including software which when

executed causes the network testing system second computing device to perform operations

comprising comprising:

the network testing system processing a start request to establish a communication channel to the <u>a client first</u> computing device on the first network through the <u>hardware</u> network device

the network testing system receiving a mirror request from the <u>client first</u> computing device over the communication channel on the first network, the mirror request specifying the <u>hardware</u> network device

the network testing system sending a request granted packet to the <u>client first</u> computing device over the communication channel on the first network

the network testing system accepting a connection request from the <u>client first</u> computing device over the communication channel on the first network, the connection request causing the <u>network testing system second computing device</u> to wait on the communication channel for mirror protocol packets from the <u>client first</u> computing device

the network testing system providing the client computing device access to capabilities of the hardware network device of the network testing system, including:

the network testing system forwarding to the client first computing device via the communication channel incoming data units received by the <u>hardware</u> network device over the second network, the incoming data units specifying the hardware network device as a destination

the network testing system receiving from the client first computing device via the communication channel outgoing data unit requests to send outgoing data units onto the second network via the hardware network device, device at one of a speed greater than that available at the client computing device and/or using a protocol not supported by the client computing device and/or at a throughput not possible at the client computing device, the outgoing data unit requests including packet assembly parameters.

29. (Currently amended) The <u>network testing</u> system of claim 28 wherein the communication channel is a tunnel.

30. (Currently amended) The <u>network testing</u> system of claim 29 wherein the <u>client first</u> computing device includes a first tunnel device and the <u>network testing system second</u> computing device includes a second tunnel device, the tunnel established between the first tunnel device and the second tunnel device.

31. (Currently amended) The <u>network testing</u> system of claim 30 wherein the first tunnel device and the second tunnel device are each network interface devices.

32. (Currently amended) A <u>network testing</u> system comprising:

a first computing device coupled to a first network,

a second computing device having at least one network device included therein, the network testing system second computing device coupled to a the first network, each network device coupled to a second network, each network device having at least one network interface associated therewith, the network testing system second computing device including software which when executed causes the network testing system second computing device to perform operations comprising comprising:

the network testing system processing a start request to establish a communication channel to a client the first computing device on the first network through a first network device of the at least one network device

the network testing system receiving a mirror request from the <u>client first</u> computing device over the communication channel on the first network, the mirror request specifying the first network device

the network testing system sending a request granted packet to the <u>client first</u> computing device over the communication channel

the network testing system accepting a network interface connection request from the client first computing device over a communication channel on the first network, the network interface connection request including a specified network interface of the first network device, the connection request causing the network testing system second computing device to wait on the communication channel for additional requests from the client first computing device

the network testing system providing the client computing device access to capabilities of the first network device of the network testing system via the specified network interface, including

the network testing system forwarding to the client first computing device via the communication channel incoming data units received by the specified network interface over the second network, the incoming data units specifying the first network device as a destination

the network testing system receiving from the client first computing device via the communication channel outgoing data unit requests to send outgoing data units onto the second network via the specified network interface, interface at a speed greater than that available at the client computing device and/or using a protocol not supported by the client computing device and/or at a throughput not possible at the client computing device, the outgoing data unit requests including packet assembly parameters.

33. (Currently amended) The <u>network testing</u> system of claim 32 wherein the <u>client first</u> computing device includes a first communication device and the <u>network testing system</u> second computing device includes a second communication device, the communication channel established between the first communication device and the second communication device.

34. (Currently amended) The <u>network testing</u> system of claim 33 wherein the first communication device and the second communication device are each network interface

devices.

35. (Currently amended) The <u>network testing</u> system of claim 32 wherein the first network is an

Ethernet network.

36. (Currently amended) A method for allowing a client first computing device to access the

capabilities of a network device included in a <u>network testing system</u> second computing

device via a virtual interface, the method comprising:

the <u>network testing system second computing device</u> processing a start request to

establish a communication channel to the <u>client</u> first computing device on a first network through

the network device

the <u>network testing system</u> second computing device receiving a mirror request from the

client first computing device over the communication channel on the first network, the mirror

request specifying the network device

the network testing system second computing device sending a request granted packet to

the client first computing device over the communication channel

the <u>network testing system second computing device</u> accepting a connection over the

communication channel from the <u>client first</u> computing device

the <u>network testing system second computing device</u> associating a network interface of

the network device with the communication channel

the network testing system providing the client computing device access to the

capabilities of the network device of the network testing system via the network interface,

including

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the network testing system receiving via the communication channel outgoing
data unit requests from the client computing device, the outgoing data unit requests
including an identifier of a specified network interface

the network testing system transmitting outgoing data units pursuant to the outgoing data unit requests onto a second network via the specified network interface at a speed greater than that available at the client computing device and/or using a protocol not supported by the client computing device and/or at a throughput not possible at the client computing device,

the <u>network testing system second computing device</u> receiving over <u>the [[a]]</u> second network incoming data units directed to the network interface of the network device

the <u>network testing system second computing device</u> forwarding the incoming data units to the <u>client first</u> computing device via the communication channel.

37. (Cancelled)

- 38. (Original) The method of claim 36 wherein the establishing the communication channel includes using a transmission control protocol (TCP) socket to create a tunnel.
- 39. (Currently amended) A network testing system having a processor, a memory, an operating system, and at least one network card, the processor to execute instructions stored in the memory to cause the network testing system to perform operations comprising:

the network testing system processing a start request to establish a communication channel to a <u>client</u> computing device on a first network through a network device included in one of the network cards

the network testing system receiving a mirror request from the <u>client</u> computing device over the communication channel on the first network, the mirror request specifying the network device

the network testing system sending a request granted packet to the <u>client</u> computing device over the communication channel

the network testing system accepting a connection over the communication channel with the <u>client</u> computing device

the network testing system associating a network interface of the network device with the communication channel

the network testing system providing the client computing device access to capabilities of the network device of the network testing system via the network interface, including:

the network testing system receiving via the communication channel outgoing
data unit requests from the computing device, the outgoing data unit requests including an
identifier of the network interface associated with the network device

the network testing system transmitting outgoing data units pursuant to the outgoing data unit requests onto a second network via the network interface at a speed greater than that available at the client computing device and/or using a protocol not supported by the client computing device and/or at a throughput not possible at the client computing device

the network testing system receiving over the [[a]] second network incoming data units directed to the network interface of the network device

the network testing system forwarding the incoming data units to the <u>client</u> computing device via the communication channel.

40. (Cancelled)

41. (Original) The network testing system of claim 39 wherein the opening the communication channel includes using a transmission control protocol (TCP) socket to create a tunnel.

42. (Currently amended) A machine readable medium having instructions stored thereon which when executed by a processor <u>in a network testing system</u> cause a network card <u>in the network testing system</u> to perform operations comprising

the network card processing a start request to establish a communication channel to a <u>client</u> computing device on a first network through a network device included in the network card

the network card receiving a mirror request from the <u>client</u> computing device over the communication channel on the first network, the mirror request specifying the network device

the network card sending a request granted packet to the <u>client</u> computing device over the communication channel

the network card accepting a connection over the communication channel over the first network with the <u>client</u> computing device

the network card associating a network interface of the network device included in the network card with the communication channel

the network card providing the client computing device access to capabilities of the network device of the network card in the network testing system via the network interface, including:

the network card receiving via the communication channel outgoing data unit requests from the computing device, the outgoing data unit requests including an identifier of the network interface associated with the network device included in the network card

the network card transmitting outgoing data units pursuant to the outgoing data unit requests onto a second network via the network interface at a speed greater than that available at the client computing device and/or using a protocol not supported by the client computing device and/or at a throughput not possible at the client computing device

the network card receiving over [[a]] the second network incoming data units directed to the network interface of the network device

the network card forwarding the incoming data units to the <u>client</u> computing device via the communication channel.

43. (Cancelled)

44. (Original) The machine readable medium of claim 42 wherein the establishing the communication channel includes using a transmission control protocol (TCP) socket to create a tunnel.